

What is claimed is:

1. An ink jet printer comprising:

a recording head for jetting an active energy ray curable ink on a recording medium, wherein the ink is jetted to the recording medium while carrying out a scanning the recording head and the recording medium relatively scanned;

an active energy ray irradiation device for irradiating the recording medium on which the ink was jetted with an active energy ray to cure the ink jetted;

a detection mechanism for detecting a scanning condition of at least one of the recording head and the recording medium; and

a control section for stopping the active energy ray irradiation by the active energy ray irradiation device when the control section judges from a detected result by the detection mechanism that scanning the recording head and the recording medium relatively is not carried out normally..

2. The ink jet printer of claim 1, wherein the active energy ray irradiation device is positioned on a downstream side of a position recorded by the recording head in a direction of the scanning.

3. The ink jet printer of claim 1, wherein the

control section stops the scanning when the control section judges from the detected result by the detection mechanism that the scanning is not carried out normally.

4. The ink jet printer of claim 1, further comprising a carriage for mounting the recording head, a driving motor for moving the carriage, and a carrying mechanism for carrying the recording medium, wherein the recording head is a serial print type, and the scanning is carried out by reciprocally moving the carriage in a direction perpendicular to a carrying direction of the recording medium.

5. The ink jet printer of claim 1, wherein the recording head is a line print type, and the scanning is carried out by carrying the recording medium relative to the recording head.

6. The ink jet printer of claim 1, wherein a light receiving sensor for detecting an active energy ray is provided as the detection mechanism on a surface of the recording head in which jet openings for jetting the ink are formed, and the control section judges that the scanning is not carried out normally when the light receiving sensor detects an active energy ray which is not less than a predetermined value.

7. The ink jet printer of claim 4, wherein a motor encoder for generating a pulse signal to detect a rotation amount of the driving motor is provided as the detection mechanism, and the control section judges that the scanning is not carried out normally when the motor encoder does not output a pulse signal normally.

8. The ink jet printer of claim 4, wherein a linear encoder for generating a pulse signal by being synchronized with a movement of the carriage is provided as the detection mechanism, and the control section judges that the scanning is not carried out normally when the linear encoder does not output a pulse signal normally.

9. The ink jet printer of claim 5, wherein a read sensor for reading a marker attached to the recording medium to generate a signal is provided as the detection mechanism, and the control section judges that the scanning is not carried out normally when the read sensor does not output a signal normally.

10. The ink jet printer of claim 5, wherein a tension sensor for detecting a tension which acts on the recording medium to be carried is provided as the

detection mechanism, and the control section judges that the scanning is not carried out normally when the tension sensor detects a tension which is not less than a predetermined value.

11. The ink jet printer of claim 1, wherein the control section stops the active energy ray irradiation by emitting a control signal to the active energy ray irradiation device when the control section judges that the scanning is not carried out normally.

12. The ink jet printer of claim 4, wherein the control section stops the scanning by emitting a control signal to the driving motor and the carrying mechanism when the control section judges that the scanning is not carried out normally.

13. The ink jet printer of claim 12, wherein the carriage is provided to be movable up and down relative to the recording medium, and the control section moves up the carriage and removes the carriage from a recording region after stopping the scanning.

14. The ink jet printer of claim 1, wherein the active energy ray curable ink comprises an ultraviolet curable ink which contains a polymerizable composition.

15. The ink jet printer of claim 14, wherein the ultraviolet curable ink comprises a cationic polymerization ink.

16. The ink jet printer of claim 14, wherein the ultraviolet curable ink comprises a radical polymerization ink.

17. The ink jet printer of claim 1, wherein a plurality of recording heads are provided to jet same color of ink from more than one recording heads.

18. An ink jet recording method comprising the steps of:

jetting an active energy ray curable ink on a recording medium by a recording head while scanning the recording head and the recording medium relatively;

irradiating the recording medium on which the ink was jetted with an active energy ray by an active energy ray irradiation device to cure the ink;

detecting a scanning condition of at least one of the recording head and the recording medium;

judging from a detected result whether the scanning is carried out normally; and

stopping the irradiation with an active energy ray

by the active energy ray irradiation device when the scanning is judged not to be carried out normally.

19. The ink jet recording method of claim 18, wherein the active energy ray irradiation device is positioned on a downstream side of a position recorded by the recording head in a direction of the scanning.

20. The ink jet recording method of claim 18, further comprising a step of stopping the scanning when the scanning is judged not to be carried out normally.